

PUBLICATION NUMBER : 03221444
PUBLICATION DATE : 30-09-91

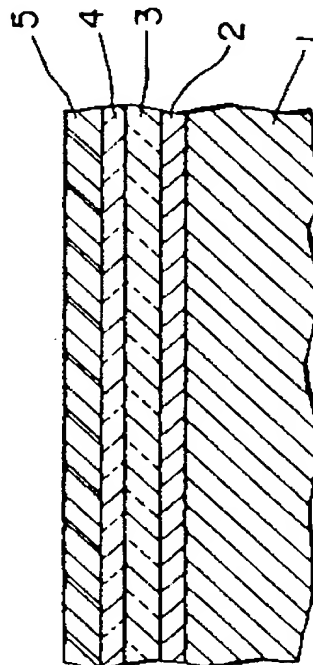
APPLICATION DATE : 26-01-90
APPLICATION NUMBER : 02017439

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INT.CL. : B32B 9/00 F01D 5/28 F02K 9/34

TITLE : OXIDATION-RESISTANT CARBON
MATERIAL



ABSTRACT : **PURPOSE:** To enable a material to be obtained which has a high heat resistance, oxidation-resistance, and corrosion resistance by providing a metallic carbide layer on the surface of a carbon parent material via a first intermediate layer, and also providing a metallic carbide layer on the metallic carbide layer via a second intermediate layer.

CONSTITUTION: On the surface of a carbon parent material 1, a first intermediate layer 2 consisting of carbon and silicon carbide is formed, and a metallic carbide layer 3 consisting of silicon carbide is provided on the first intermediate layer 2. In the next place, on the metallic carbide layer 3, a second intermediate layer 4 consisting of silicon carbide and spinels (Al_2O_3 , MgO) is provided, and a metallic carbide layer 5 consisting of spinels is provided on the second intermediate layer 4. The composition of two components of the intermediate layers 2, 4 in this instance is made into inclination composition layers that alter successively or gradually.

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